

**BACHELOR OF MEDICAL LABORATORY
TECHNOLOGY
FIFTH SEMESTER
BIOCHEMISTRY - V
BMLT – 503**

(USE OMR SHEET FOR OBJECTIVE PART)

2024/11

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

Marks: 20

[Objective]

1×20=20

Choose the correct answer from the following:

1. Which test measure the glomerular filtration of the kidney
 - a. Blood urea nitrogen
 - b. Serum total Protein test.
 - c. Serum cholesterol
 - d. Urea clearance test
2. _____ is a measure of the total concentration of dissolved particles in the specimen
 - a. Prostaglandins
 - b. Renin
 - c. Specific gravity
 - d. Osmolarity
3. Which test determine acid-base status of kidney function
 - a. Serum creatinine
 - b. Serum urea
 - c. Serum electrolytes
 - d. Creatinine clearance test
4. Which test is excluded from the cardiac injury panel tests.
 - a. CPK
 - b. SGOT
 - c. SGPT
 - d. LDH
5. Which of the following creatine kinase is a marker for myocardial infarction.
 - a. CK- MM
 - b. CK - MB
 - c. CK- BB
 - d. CK- MI
6. In liver and skeletal muscles which isoenzymes of LDH appears or predominate
 - a. LD -1 and LD-2
 - b. LD -4 and LD-5
 - c. LD -1 and LD-4
 - d. LD -5 and LD-2
7. CK-MM are found in
 - a. Brain and Heart muscles
 - b. Skeletal and Heart muscles
 - c. Heart muscles
 - d. Brain
8. Which enzyme test is more specific for acute pancreatitis?
 - a. Serum amylase
 - b. Serum LDH
 - c. Serum lipase
 - d. Serum alkaline phosphatase
9. Which enzyme test is more specific for obstructive jaundice?
 - a. AST
 - b. ALP
 - c. ALT
 - d. SGOT

10. In which type of jaundice unconjugated bilirubin level in serum is increased more as compared to conjugated bilirubin?
 - a. Pre-Hepatic Jaundice
 - b. Hepatic Jaundice
 - c. Post Hepatic Jaundice
 - d. Infective Jaundice
11. Unconjugated Bilirubin is also known as-
 - a. Direct Bilirubin
 - b. Indirect Bilirubin
 - c. Total Bilirubin
 - d. Serum Bilirubin
12. Conjugated bilirubin pass through the guts which excrete in faeces is termed as
 - a. Urobilinogen
 - b. Stercobilinogen
 - c. urobilin
 - d. Stercobilin
13. Jaundice is also known as
 - a. Hepatitis
 - b. Post hepatic
 - c. Icterus
 - d. Hepatic
14. T3 hormone is
 - a. Triiodothyronine
 - b. Thyroxine
 - c. Threonine
 - d. Thyroid stimulating hormone
15. Post- hepatic jaundice is also known as
 - a. Hemolytic
 - b. Obstructive
 - c. Hepatocellular
 - d. Pre- Hemolytic
16. T4 hormone is
 - a. Triiodothyronine
 - b. Thyroxine
 - c. Threonine
 - d. Thyroid stimulating hormone
17. Analysis in which each specimen in the batch enters the analytical process one after another
 - a. Parallel analysis
 - b. Discrete analysis
 - c. Sequential analysis
 - d. Batch analysis
18. Transport of a quantity analyte from one specimen reaction in to another and contaminating a subsequent one
 - a. Point of care testing
 - b. Carry over
 - c. Centralised testing
 - d. Core lab
19. Which of the following plays a key role in the metabolism of thyroid gland
 - a. Sodium
 - b. Iodine
 - c. Potassium
 - d. Copper
20. Which one of the following links together multiple lab disciplines into a single testing platform interconnected by a track
 - a. Stand-alone systems
 - b. Total laboratory automation
 - c. Modular integrated systems
 - d. Centralised system

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(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Explain the Glucose Tolerance Test (GTT). | 10 |
| 2. Write briefly about the Plasma Functional and Nonfunctional Enzymes with examples? | 5+5=10 |
| 3. What are the different enzymes estimated in LFT? How the enzyme levels change in Hepatic and Post-Hepatic Jaundice? | 5+5=10 |
| 4. Explain what is Myocardial Infarction. What are the different markers of MI? | 5+5=10 |
| 5. Define Jaundice. Explain the types in details. | 10 |
| 6. Explain the formation of urine. Describe the test to assess kidney Functions. | 5+5=10 |
| 7. Define Automation. Explain its Classification with examples. | 10 |
| 8. Give the Classification of Thyroid Function Tests. Explain Hyperthyroidism and Hypothyroidism. | 3+3+4
=10 |

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